

## **ABSTRACT**

A vertical and a horizontal vacuum sublimation apparatus with high efficiency and processes thereof are provided, especially for the materials having high melting point and low vapor pressure. The vertical sublimation purification apparatus comprises a sublimation channel body, a material rack, a heating evaporation device, a condensation device, an incubating device and a product scratching device. The horizontal sublimation purification apparatus comprises a sublimation channel body, a material carrier, a heating evaporation device and two end pipes. The apparatuses of the present invention can be applied on high purity chemicals from mass production, and are capable of sublimating and purifying OLED illumination layer materials including ALq<sub>3</sub>, NPB and CuPc, which have high melting temperature and low vapor pressure.